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## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

- 1. (Currently Amended) A method comprising heating in the presence of a <u>ring opening</u> <u>polymerization</u> catalyst, a mixture comprising
- (i) a reaction product obtained by mixing in the presence of a platinum group metalcontaining catalyst at least one organohydrogensilicon compound containing at least one
  silicon-bonded hydrogen atom per molecule and at least one compound having at least one
  aliphatic unsaturation; where the organohydrogensilicon compound is described by formula
  (I)

where each R is independently selected from a hydrogen atom and a monovalent hydrocarbon group comprising 1 to 20 carbon atoms which is free from aliphatic unsaturation, a is an integer from 1 to 18, b is an integer from 1 to 19, a + b is an integer from 3 to 20, each X is an independently selected functional group selected from a halogen atom, an ether group, an alkoxy group, an alkoxyether group, an acyl group, or a silyl group, or a –Z-R<sup>4</sup> group, where each Z is independently selected from an oxygen and a divalent hydrocarbon group comprising 2 to 20 carbon atoms, each R<sup>4</sup> group is independently selected from -BR<sub>U</sub>Y<sub>2-U</sub>, -SiR<sub>V</sub>Y<sub>3-V</sub>, or a group described by formula (II):

$$\begin{split} &(Y_{3-n}R_nSiO_{1/2})_c(Y_{2-o}R_oSiO_{2/2})_d(Y_{1-p}R_pSiO_{3/2})_e(SiO_{4/2})_f(CR_qY_{1-q})_g(CR_rY_{2-r})_h\\ &(O(CR_sY_{2-s}))_i(CR_tY_{3-t})_i \end{split}$$

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where B refers to boron, each R is as described above, the sum of c+d+c+f+g+h+i+j is at least 2, n is an integer from 0 to 3, o is an integer from 0 to 2, p is an integer from 0 to 1, q is an integer from 0 to 1, r is an integer from 0 to 2, s is an integer from 0 to 2, t is an integer from 0 to 3, u is an integer from 0 to 2, v is an integer from 0 to 3, each Y is an independently selected functional group selected from a halogen atom, an ether group, an alkoxy group, an alkoxyether group, an acyl group, or a silyl group, or a Z-G group, where Z is as described above, each G is a cyclosiloxane described by formula (III):

where R and X are as described above, k is an integer from 0 to 18, m is an integer from 0 to 18, k+m is an integer from 2 to 20, provided in formula (II) that one of the Y groups is replaced by the Z group bonding the R<sup>4</sup> group to the cyclosiloxane of formula (I), and provided further at least one X group of Formula (I) is a -Z-R<sup>4</sup> group;

- (ii) at least one endblocker described by formula (IV) R'3SiO(MeR'SiO)<sub>z</sub>SiR'3, where z ranges from 0 to 150 and each R' is independently chosen from alkyl, aryl, alkenyl, dienyl or functional alkyls where the functionality may be fluoro, fluoroether, polyether, ether, aryl, silyl, siloxy, carboxy, glycosidyl or acrylate, and optionally
- (iii) at least one organosiloxane chosen from a hydrolyzate described by formula (V) HO(MeR'SiO)<sub>y</sub>·H and a cyclosiloxane described by formula (VI) (MeR'SiO)<sub>y</sub> where y is an integer from 3 to 30, y' is an integer from 1 to 500, and each R' is as described above; so to cause polymerization of components (i), (ii), and optionally (iii) to form branched polymers.
- 2. (Original) The method of claim 1 where subscript b is an integer from 2 to 19, subscript c is an integer from 0 to 50, subscript d is an integer from 0 to 5000, subscript e is an integer from 0 to 48, subscript f is an integer from 0 to 24, subscript g is an integer from 0 to 50, subscript h is an integer from 0 to 50, subscript i is an integer from 0 to 50, and subscript j is an integer from 0 to 50.

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3. (Previously Presented) The method of claim 1 where each R group is independently selected from hydrogen atoms, alkyl groups comprising 1 to 8 carbon atoms, or aryl groups comprising 6 to 9 carbon atoms, each X is a Z-R<sup>4</sup> group or is independently selected from chloro, methoxy, isopropoxy, where Z is a divalent hydrocarbon group, and R<sup>4</sup> is selected from -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-,-O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>Z</sub><sup>2</sup>-, where z' = 1-100, O(CH<sub>2</sub> CH<sub>2</sub>CH<sub>2</sub>O)<sub>Z</sub><sup>2</sup>-, where z''= 1-100 and siloxane groups described by -R<sub>2</sub>SiO(R<sub>2</sub>SiO)<sub>d</sub>SiR<sub>2</sub>-Z-G, -R<sub>2</sub>SiOSiR<sub>3</sub>, -R<sub>2</sub>SiOSiR<sub>2</sub>-Y, and -RSi(OSiR<sub>3</sub>)<sub>2</sub>, where d is an integer from 1 to 50 and Z, G, and R are as described above.

4. (Currently Amended) The method of claim 1 where the organohydrogensilicon compound is selected from the structures below where Me is methyl,  $d^1 + d^2 = d$ , and x is an integer can ranges from 1 to 100:

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5. (Previously Presented) The method of claim 1 where the organohydrogensilicon compound is described by the structure below where Me is methyl, d is an average of 8, and x is an integer from 1 to 15.

6. (Previously Presented) The method of claim 1 where R' is independently chosen from alkyl, fluoroalkyl, or alkenyl, component (ii) is added in amounts from 3 to 1000 parts by weight based on 100 parts by weight of component (i), and component (iii) is added in amounts from 0 to 1000 parts by weight.

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- 7. (Cancelled)
- 8. (Previously Presented) The method of claim 1 where a sufficient ratio of aliphatic unsaturation to Si-H is used so that all the silicon-bonded hydrogen bonds on the organosilicon compound are reacted.

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- 9. (Previously Presented) A branched polymer made by the method of claim 1.
- 10. (Previously Presented) A composition comprising a branched polymer made by the method of claim 1.
- 11. (Original) A composition comprising a branched polymer made by the method of claim 8, a Si-H crosslinker, a platinum-group containing catalyst, and an inhibitor.
- 12. (Currently Amended) The method of claim 1 wherein the <u>ring opening polymerization</u> catalyst is selected from triflic acid, dipotassium dimethylsilanolate, phosphazene bases, acid ion exchange resins and acid clays.
- 13. (Currently Amended) The method of claim 1 wherein the amount of the ring opening polymerization catalyst is in the range of 10 parts per million to 2 parts by weight based on the total weight percent solids in the composition.
- 14. (Currently Amended) The method of claim 1 wherein the <u>polymerization</u>heating of the mixture is carried out in the presence of a solvent.
- 15. (Previously Presented) The method of claim 3 wherein component (iii) is added in amounts from 100 to 1000 parts by weight.
- 16. (Previously Presented) A branched polymer made by the method of claim 3.

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- 17. (Previously Presented) A branched polymer made by the method of claim 4.
- 18. (Currently Amended) A branched polymer made by the method of claim 1519.
- 19. (Previously Presented) A composition comprising a branched polymer made by the method of claim 3, a Si-H crosslinker, a platinum-group containing catalyst, and an inhibitor.
- 20. (Previously Presented) A composition comprising a branched polymer made by the method of claim 4, a Si-H crosslinker, a platinum-group containing catalyst, and an inhibitor.
- 20. (Cancelled)
- 21. (Previously Presented) A composition comprising a branched polymer made by the method of claim 15, a Si-H crosslinker, a platinum-group containing catalyst, and an inhibitor.